



BUREAU VERITAS MINERAL LABORATORIES
Canada

www.bureauveritas.com/um

Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

Client: **Fireweed Zinc Ltd.**
Suite 1020, 800 Pender Street
Vancouver British Columbia V5C 2V6 Canada

Submitted By: Confirmation & Email Distribution List
Receiving Lab: Canada-Whitehorse
Received: July 25, 2019
Report Date: August 18, 2019
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CERTIFICATE OF ANALYSIS

WHI19000265.1

CLIENT JOB INFORMATION

Project: MacMillan Pass
Shipment ID: FWZ19-BV-016
P.O. Number
Number of Samples: 34

SAMPLE DISPOSAL

RTRN-PLP Return After 90 days
RTRN-RJT Return After 60 days

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-500	33	Crush, split and pulverize 500g rock to 200 mesh			WHI
SLBHP	1	Sort, label and box pulps			WHI
CRUBW	33	Extra clean rock wash between samples in crusher			WHI
PULSW	33	Extra Wash with Silica between each sample			WHI
AQ270	34	1:1:1 Aqua Regia digestion ICP-ES/ICP-MS analysis	1	Completed	VAN
LF725	34	Li2B4O7/LiBO2 fusion, analysis by XRF		Completed	VAN
TC000	34	Total C/S Analysis by Leco	0.1	Completed	VAN
TC007	34	Graphite and Organic C by Leco After Ignition	0.1	Completed	VAN
TC006	34	Inorganic Carbon	0.2	Completed	VAN
TC009	34	Sulfide and Sulfate	0.1	Completed	VAN
SHP01	34	Per sample shipping charges for branch shipments			VAN

ADDITIONAL COMMENTS

V205 from LF725 is Qualitative Data only.

Invoice To: Fireweed Zinc Ltd.
Suite 1020, 800 Pender Street
Vancouver British Columbia V5C 2V6
Canada

CC:



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
*** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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MacMillan Pass

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	Method	Analyte	Unit	MDL	WGHT	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270			
					Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P
					kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
					0.01	0.5	0.5	0.5	5	0.5	0.5	0.5	5	0.01	5	0.5	0.5	5	0.5	0.5	0.5	10	0.01	0.001
3200876	Drill Core	6.50	14.6	49.7	7842.3	14880	15.4	73.7	10.2	248	2.59	71	2.5	3.2	50	101.6	39.4	<0.5	140	0.02	0.039			
3200877	Drill Core	5.18	1.3	35.2	>40000	88494	117.5	6.0	4.9	52	0.33	10	0.7	0.8	57	593.7	139.4	<0.5	25	<0.01	0.010			
3200878	Drill Core	5.10	3.9	23.2	>40000	52103	55.4	21.4	9.8	69	0.88	34	1.0	0.9	46	314.9	87.5	<0.5	55	<0.01	0.006			
3200879	Drill Core	3.69	9.4	96.4	30910.1	80451	40.2	51.6	29.7	160	2.52	175	1.7	2.6	29	418.8	189.6	<0.5	212	<0.01	0.011			
3200880	Rock	1.22	1.8	56.7	32.5	65	<0.5	4.9	10.3	482	3.05	<5	0.9	2.8	106	<0.5	<0.5	<0.5	109	1.18	0.058			
3200881	Drill Core	1.64	8.2	78.9	11793.1	34665	18.7	54.9	21.9	90	1.80	86	1.6	2.9	26	184.2	101.3	<0.5	290	0.02	0.031			
3200882	Drill Core	1.70	8.9	117.9	16241.4	44599	22.9	60.8	27.5	96	1.71	96	1.6	2.7	24	235.2	161.0	<0.5	319	0.02	0.024			
3200883	Drill Core	5.19	4.4	26.9	31439.7	50748	17.1	23.4	16.9	38	0.96	67	1.1	1.5	42	237.2	27.9	<0.5	136	0.04	0.037			
3200884	Drill Core	4.24	6.2	24.7	15303.6	34370	9.6	29.6	14.3	37	1.54	63	1.3	2.1	50	146.6	21.0	<0.5	189	0.07	0.038			
3200885	Drill Core	4.59	5.2	21.0	14539.5	36985	10.2	26.5	15.8	44	1.22	70	1.2	1.6	61	153.6	17.7	<0.5	126	0.06	0.042			
3200886	Drill Core	4.79	1.9	20.1	>40000	55697	29.8	8.5	4.4	35	0.49	16	0.6	0.5	38	256.2	43.2	<0.5	20	<0.01	0.002			
3200887	Drill Core	4.13	3.0	17.7	21367.8	48785	13.7	19.7	8.8	42	0.60	24	1.1	0.6	45	217.3	19.1	<0.5	58	<0.01	0.008			
3200888	Drill Core	4.86	5.2	38.4	35704.2	72453	19.6	28.8	27.3	42	1.17	89	1.3	1.4	50	338.1	26.7	<0.5	145	0.03	0.023			
3200889	Drill Core	4.00	4.3	25.8	>40000	64957	19.5	20.9	19.4	38	0.92	63	1.6	1.4	51	281.8	34.1	<0.5	131	0.03	0.035			
3200890	Drill Core	3.28	8.5	30.8	5622.6	16596	4.1	61.1	34.4	39	1.67	209	2.1	2.8	75	72.6	24.3	<0.5	343	0.14	0.078			
3200891	Drill Core	3.62	9.9	36.3	19715.2	47603	12.3	52.6	29.1	44	1.76	141	2.1	2.6	71	209.4	28.2	<0.5	339	0.07	0.064			
3200892	Drill Core	5.60	4.7	21.7	38956.6	97049	15.9	15.6	16.1	27	0.77	47	1.1	1.6	37	427.0	18.9	<0.5	73	<0.01	0.008			
3200893	Drill Core	5.52	3.7	16.0	>40000	78321	17.6	12.9	11.2	22	0.54	38	1.0	1.0	39	373.2	20.8	<0.5	70	<0.01	0.005			
3200894	Drill Core	6.31	2.8	15.3	38589.1	74818	14.8	10.8	7.0	22	0.25	15	0.7	0.7	35	310.8	16.3	<0.5	64	<0.01	0.002			
3200895	Drill Core	3.94	6.4	24.7	36419.9	97178	18.0	22.7	21.9	32	0.99	69	1.5	1.3	31	410.4	18.5	<0.5	142	<0.01	0.014			
3200896	Drill Core	4.93	2.7	16.3	39312.8	85733	18.5	9.2	7.7	23	0.31	15	0.8	0.7	35	365.8	20.6	<0.5	66	<0.01	0.010			
3200897	Drill Core	5.23	3.0	11.9	32249.1	70580	15.4	8.7	6.3	18	0.22	9	0.8	0.6	44	302.1	16.6	<0.5	70	<0.01	0.010			
3200898	Drill Core	5.36	3.0	15.3	>40000	72989	22.5	17.0	8.3	21	0.46	27	0.8	0.7	39	315.1	23.2	<0.5	55	<0.01	0.009			
3200899	Drill Core	5.53	2.5	30.8	>40000	83815	33.4	16.8	7.1	21	0.29	16	0.7	0.5	38	370.4	34.3	<0.5	43	<0.01	0.009			
3200900	Rock Pulp	0.04	3.3	339.3	>40000	108995	98.9	23.7	24.3	1288	7.85	139	1.4	7.6	17	334.2	172.1	0.6	<10	3.85	0.048			
3200901	Drill Core	2.12	4.8	31.5	37370.8	59013	23.3	32.8	16.0	46	0.81	39	1.2	1.5	76	261.6	24.6	<0.5	135	<0.01	0.032			
3200902	Drill Core	1.97	4.8	39.0	32168.8	78576	21.1	30.9	16.8	44	0.86	53	1.2	1.3	48	340.6	20.6	<0.5	135	<0.01	0.023			
3200903	Drill Core	4.81	5.7	33.7	24780.2	52867	23.0	45.4	23.4	182	1.46	86	2.5	1.7	48	231.6	24.7	<0.5	161	<0.01	0.024			
3200904	Drill Core	4.38	5.7	28.8	25598.9	50468	27.3	29.4	20.2	1370	3.38	63	1.7	1.7	62	225.9	23.0	<0.5	135	0.03	0.040			
3200905	Drill Core	4.13	5.2	30.6	24469.0	65508	28.3	23.4	14.5	551	1.72	21	1.0	1.5	79	298.0	21.0	<0.5	126	<0.01	0.038			



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	Method Analyte Unit MDL	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	LF725	LF725	LF725	LF725	LF725
		La	Cr	Mg	Ba	Ti	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	SiO2	Al2O3	Fe2O3	CaO	MgO
		ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%
		0.5	0.5	0.01	5	0.001	0.01	0.01	0.01	0.01	0.5	0.05	0.5	0.5	0.05	5	2	0.01	0.01	0.01	0.01
3200876	Drill Core	8.5	25.7	<0.01	514	0.012	0.36	<0.01	0.11	2.7	5.19	3.8	0.8	3.27	<5	5	69.15	7.39	3.79	0.03	0.15
3200877	Drill Core	0.6	3.9	<0.01	300	0.005	0.04	<0.01	<0.01	4.6	41.19	<0.5	<0.5	6.17	<5	4	9.83	0.39	0.47	<0.01	<0.01
3200878	Drill Core	1.7	12.9	<0.01	356	0.014	0.09	<0.01	<0.01	0.7	30.89	0.6	1.1	4.49	<5	3	28.57	0.86	1.22	<0.01	0.01
3200879	Drill Core	5.6	47.1	<0.01	321	0.062	0.19	<0.01	<0.01	1.9	23.49	0.9	2.0	6.62	<5	10	68.76	2.37	3.50	<0.01	0.01
3200880	Rock	8.1	6.8	0.88	336	0.208	2.04	0.27	0.31	<0.5	<0.05	3.4	<0.5	<0.05	6	<2	60.29	16.77	6.37	6.21	2.93
3200881	Drill Core	7.8	72.1	<0.01	826	0.085	0.26	<0.01	<0.01	2.0	9.25	1.3	1.1	3.41	<5	4	81.13	3.43	2.53	0.03	0.01
3200882	Drill Core	7.1	71.9	<0.01	451	0.097	0.23	<0.01	<0.01	1.7	12.34	0.9	1.3	3.90	<5	5	76.06	3.22	2.37	0.07	0.05
3200883	Drill Core	4.3	31.8	<0.01	431	0.037	0.27	<0.01	<0.01	0.6	16.10	1.4	1.1	3.71	<5	3	40.33	1.96	1.31	0.05	<0.01
3200884	Drill Core	6.6	39.9	<0.01	516	0.056	0.30	<0.01	<0.01	1.7	8.47	1.2	1.3	3.39	<5	4	52.76	2.23	2.21	0.10	<0.01
3200885	Drill Core	6.2	31.5	<0.01	579	0.033	0.24	<0.01	<0.01	1.1	9.97	1.1	2.1	3.07	<5	<2	54.93	1.55	1.75	0.08	0.01
3200886	Drill Core	0.8	5.4	<0.01	397	0.005	0.05	<0.01	<0.01	0.5	16.43	<0.5	2.8	3.99	<5	<2	41.95	0.41	0.68	<0.01	0.01
3200887	Drill Core	2.0	14.4	<0.01	554	0.016	0.11	<0.01	<0.01	<0.5	13.52	0.5	1.3	3.04	<5	2	44.95	0.69	0.83	0.01	0.02
3200888	Drill Core	3.9	32.0	<0.01	306	0.044	0.18	<0.01	<0.01	0.5	21.93	0.9	1.8	5.18	<5	3	33.44	1.22	1.63	0.05	<0.01
3200889	Drill Core	3.3	26.1	<0.01	363	0.038	0.24	<0.01	<0.01	0.8	20.26	0.9	2.2	4.51	<5	5	32.80	1.32	1.27	0.05	0.02
3200890	Drill Core	15.0	83.8	<0.01	854	0.108	0.68	<0.01	<0.01	2.3	4.04	1.6	0.9	2.62	<5	2	78.99	5.29	2.38	0.19	0.01
3200891	Drill Core	9.4	74.2	<0.01	408	0.102	0.53	<0.01	<0.01	2.3	11.97	1.7	1.7	4.22	<5	4	50.82	3.40	2.53	0.10	0.01
3200892	Drill Core	2.1	19.6	<0.01	290	0.024	0.11	<0.01	<0.01	<0.5	32.40	0.7	3.7	5.80	<5	3	17.84	0.74	1.11	0.02	0.02
3200893	Drill Core	1.8	16.7	<0.01	472	0.022	0.09	<0.01	<0.01	<0.5	31.82	<0.5	3.4	4.85	<5	2	12.83	0.61	0.78	0.01	<0.01
3200894	Drill Core	0.7	13.3	<0.01	403	0.019	0.10	<0.01	<0.01	<0.5	34.20	<0.5	1.9	4.25	<5	2	11.02	0.62	0.37	<0.01	<0.01
3200895	Drill Core	2.8	30.7	<0.01	238	0.043	0.15	<0.01	<0.01	<0.5	41.06	0.6	3.3	6.03	<5	4	17.28	1.08	1.40	0.03	0.01
3200896	Drill Core	1.1	13.9	<0.01	412	0.020	0.12	<0.01	<0.01	<0.5	35.43	<0.5	2.1	4.86	<5	3	10.89	0.74	0.47	0.02	0.01
3200897	Drill Core	1.2	14.0	<0.01	412	0.022	0.11	<0.01	<0.01	<0.5	29.88	<0.5	1.5	3.93	<5	<2	8.20	0.65	0.31	0.02	<0.01
3200898	Drill Core	1.3	13.3	<0.01	316	0.017	0.11	<0.01	<0.01	<0.5	30.82	<0.5	2.4	4.46	<5	3	14.02	0.62	0.67	0.02	<0.01
3200899	Drill Core	0.7	9.4	<0.01	442	0.013	0.08	<0.01	<0.01	<0.5	38.19	<0.5	1.7	5.01	<5	4	11.49	0.47	0.42	0.01	<0.01
3200900	Rock Pulp	18.7	11.7	2.10	111	0.012	0.79	<0.01	0.50	<0.5	5.78	2.1	46.2	10.94	<5	3	34.49	6.88	11.63	5.38	3.91
3200901	Drill Core	5.3	28.7	<0.01	526	0.040	0.39	<0.01	<0.01	<0.5	27.29	0.9	1.8	3.97	<5	4	36.24	1.77	1.19	0.02	0.02
3200902	Drill Core	4.2	28.8	<0.01	303	0.039	0.26	<0.01	<0.01	<0.5	34.30	0.9	1.7	4.86	<5	4	35.34	1.54	1.29	0.02	0.02
3200903	Drill Core	4.5	36.3	<0.01	384	0.045	0.60	<0.01	<0.01	<0.5	25.90	0.9	2.0	3.99	<5	3	32.64	2.13	2.18	0.02	0.02
3200904	Drill Core	5.5	30.9	<0.01	434	0.039	0.44	<0.01	<0.01	0.5	26.39	1.5	2.1	3.63	<5	2	40.02	1.40	5.00	0.05	0.02
3200905	Drill Core	4.9	28.3	<0.01	425	0.039	0.35	<0.01	<0.01	<0.5	37.08	0.8	1.0	3.88	<5	3	39.46	1.15	2.52	0.02	0.02



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Method	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	TC000	TC000	TC005	TC005	TC006	TC008	TC008
Analyte	K2O	MnO	TiO2	P2O5	Cr2O3	Ba	Cu	Pb	Zn	LOI	SUM_T	V2O5	TOT/C	TOT/S	C/ORG	C/GRA	CO2	S/S-	SO4
Unit	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
MDL	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-5.11	0.01	0.01	0.02	0.02	0.02	0.02	0.08	0.05	0.05
3200876 Drill Core	1.33	0.05	0.36	0.19	<0.01	4.56	<0.01	0.76	1.46	7.48	97.68	0.11	1.94	4.44	1.68	0.21	0.18	2.50	5.83
3200877 Drill Core	<0.01	0.04	<0.01	0.03	<0.01	36.86	<0.01	10.46	8.77	3.80	77.96	<0.01	0.07	14.78	0.05	<0.02	<0.08	2.46	36.96
3200878 Drill Core	0.02	0.03	0.06	0.03	<0.01	29.26	<0.01	8.46	5.07	4.03	82.95	0.02	0.06	11.39	0.05	<0.02	<0.08	1.64	29.24
3200879 Drill Core	0.03	0.04	0.18	0.08	<0.01	4.41	<0.01	2.97	7.89	6.41	99.42	0.05	0.06	7.69	0.05	<0.02	<0.08	2.51	15.56
3200880 Rock	1.49	0.14	0.54	0.14	<0.01	0.11	<0.01	<0.01	<0.01	0.84	99.19	0.03	0.03	<0.02	0.02	<0.02	<0.08	<0.05	0.12
3200881 Drill Core	<0.01	0.04	0.20	0.18	<0.01	1.69	<0.01	1.12	3.36	3.96	98.84	0.06	0.12	3.79	0.11	<0.02	<0.08	1.63	6.47
3200882 Drill Core	0.04	0.03	0.22	0.17	<0.01	2.19	0.02	1.52	4.33	4.57	96.90	0.06	0.14	4.44	0.13	<0.02	<0.08	1.74	8.11
3200883 Drill Core	<0.01	0.03	0.10	0.07	<0.01	25.21	<0.01	3.11	4.92	4.89	86.42	0.03	0.05	9.74	0.04	<0.02	<0.08	1.45	24.88
3200884 Drill Core	<0.01	0.03	0.11	0.09	<0.01	19.00	<0.01	1.50	3.31	5.02	89.54	0.03	0.05	7.83	0.04	<0.02	<0.08	1.18	19.94
3200885 Drill Core	<0.01	0.03	0.09	0.09	<0.01	19.56	<0.01	1.42	3.59	4.04	90.41	0.03	0.05	7.78	0.05	<0.02	<0.08	1.17	19.84
3200886 Drill Core	<0.01	0.03	0.01	<0.01	<0.01	23.48	<0.01	6.62	5.33	2.98	86.13	<0.01	0.04	9.76	0.04	<0.02	<0.08	1.85	23.72
3200887 Drill Core	<0.01	0.03	0.04	0.02	<0.01	24.49	<0.01	2.17	4.63	2.07	84.15	0.01	0.04	9.04	0.04	<0.02	<0.08	1.56	22.43
3200888 Drill Core	<0.01	0.03	0.09	0.05	<0.01	27.93	<0.01	3.49	7.17	4.04	84.53	0.03	0.05	11.49	0.05	<0.02	<0.08	1.81	29.05
3200889 Drill Core	<0.01	0.03	0.07	0.08	<0.01	28.27	<0.01	4.13	6.33	4.09	83.66	0.02	0.05	10.94	0.05	<0.02	<0.08	1.42	28.56
3200890 Drill Core	<0.01	0.03	0.20	0.21	0.01	3.47	<0.01	0.54	1.62	5.06	98.85	0.06	0.02	3.40	<0.02	<0.02	<0.08	1.70	5.12
3200891 Drill Core	<0.01	0.03	0.20	0.16	<0.01	17.62	<0.01	1.93	4.48	6.58	91.15	0.07	0.07	8.56	0.06	<0.02	<0.08	1.74	20.45
3200892 Drill Core	<0.01	0.03	0.06	0.01	<0.01	35.12	<0.01	3.84	9.14	3.69	78.30	0.02	0.05	14.61	0.05	<0.02	<0.08	2.50	36.33
3200893 Drill Core	<0.01	0.03	0.04	<0.01	<0.01	39.63	<0.01	4.95	7.44	2.32	75.50	0.01	0.05	15.02	0.04	<0.02	<0.08	2.96	36.18
3200894 Drill Core	<0.01	0.03	0.03	<0.01	<0.01	42.50	<0.01	3.87	7.05	2.33	74.88	<0.01	0.19	14.22	0.18	<0.02	<0.08	1.18	39.12
3200895 Drill Core	<0.01	0.03	0.10	0.03	<0.01	35.15	<0.01	3.55	9.01	3.92	78.27	0.03	0.05	14.63	0.04	<0.02	<0.08	2.74	35.67
3200896 Drill Core	<0.01	0.03	0.03	0.02	<0.01	41.04	<0.01	3.85	8.11	2.80	75.13	0.01	0.05	14.33	0.04	<0.02	<0.08	1.39	38.82
3200897 Drill Core	<0.01	0.03	0.03	0.02	<0.01	43.83	<0.01	3.12	6.41	2.39	71.95	<0.01	0.04	14.52	0.03	<0.02	<0.08	1.40	39.36
3200898 Drill Core	<0.01	0.04	0.04	0.03	<0.01	39.84	<0.01	4.69	7.07	2.86	76.66	0.01	0.06	14.11	0.05	<0.02	<0.08	2.48	34.89
3200899 Drill Core	<0.01	0.03	0.04	0.02	<0.01	38.83	<0.01	5.92	7.79	2.69	74.69	<0.01	0.05	14.43	0.04	<0.02	<0.08	1.96	37.41
3200900 Rock Pulp	3.54	0.19	0.22	0.09	<0.01	0.08	0.02	4.87	10.81	14.25	99.59	<0.01	2.57	11.19	0.50	<0.02	7.58	5.46	17.20
3200901 Drill Core	<0.01	0.03	0.09	0.10	<0.01	27.14	<0.01	3.80	5.75	4.16	85.19	0.02	0.06	10.66	0.06	<0.02	<0.08	1.37	27.87
3200902 Drill Core	<0.01	0.03	0.08	0.09	<0.01	25.74	<0.01	3.17	7.51	4.27	84.22	0.03	0.05	11.17	0.05	<0.02	<0.08	2.26	26.74
3200903 Drill Core	<0.01	0.05	0.11	0.09	<0.01	29.13	<0.01	2.55	5.18	4.78	83.75	0.03	0.12	10.97	0.06	<0.02	0.20	1.73	27.73
3200904 Drill Core	<0.01	0.21	0.12	0.10	<0.01	23.46	<0.01	2.62	5.06	5.40	87.65	0.03	0.61	9.17	0.20	<0.02	1.54	0.80	25.11
3200905 Drill Core	<0.01	0.09	0.10	0.08	<0.01	24.72	<0.01	2.47	6.36	4.08	85.78	0.03	0.29	9.65	0.11	<0.02	0.67	0.31	28.02



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Project: MacMillan Pass
Report Date: August 18, 2019

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CERTIFICATE OF ANALYSIS

WHI19000265.1

	Method Analyte Unit MDL	WGHT	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.5	0.5	0.5	5	0.5	0.5	0.5	5	0.01	5	0.5	0.5	5	0.5	0.5	0.5	10	0.01	0.001
3200906	Drill Core	4.58	3.0	22.7	30104.9	47641	26.4	13.8	12.3	76	0.92	36	0.6	0.8	74	206.2	20.1	<0.5	63	<0.01	0.037
3200907	Drill Core	3.73	5.6	51.5	22519.3	34827	24.5	29.2	18.3	121	1.50	84	1.1	1.7	98	162.4	22.1	<0.5	174	<0.01	0.059
3200908	Drill Core	4.00	6.7	54.4	>40000	102145	44.8	28.2	20.1	302	2.18	82	1.0	2.0	77	488.1	43.2	<0.5	189	<0.01	0.068
3200909	Drill Core	4.44	7.8	20.2	13607.2	21662	20.3	80.6	28.7	380	2.58	56	1.3	2.4	78	109.2	23.2	<0.5	381	0.01	0.070



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CERTIFICATE OF ANALYSIS

WHI19000265.1

	Method Analyte Unit MDL	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	LF725	LF725	LF725	LF725	LF725
		La	Cr	Mg	Ba	Ti	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	SiO2	Al2O3	Fe2O3	CaO	MgO
		ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%
		0.5	0.5	0.01	5	0.001	0.01	0.01	0.01	0.5	0.05	0.5	0.5	0.05	5	2	0.01	0.01	0.01	0.01	0.01
3200906	Drill Core	2.8	16.7	<0.01	569	0.019	0.18	<0.01	<0.01	<0.5	28.73	<0.5	1.4	3.31	<5	<2	49.29	0.76	1.33	0.01	0.02
3200907	Drill Core	7.8	43.7	<0.01	499	0.055	0.39	<0.01	<0.01	<0.5	21.68	0.5	1.1	3.07	<5	3	57.99	2.28	2.24	0.02	0.01
3200908	Drill Core	5.9	35.8	<0.01	222	0.059	0.37	<0.01	<0.01	<0.5	58.55	0.6	2.3	7.05	<5	5	37.78	1.51	3.23	0.03	0.02
3200909	Drill Core	11.1	91.5	<0.01	481	0.113	1.25	<0.01	<0.01	<0.5	17.30	0.9	1.3	2.93	<5	3	69.47	5.38	3.93	0.03	0.03



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CERTIFICATE OF ANALYSIS

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	Method	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	TC000	TC000	TC005	TC005	TC006	TC008	TC008
	Analyte	K2O	MnO	TiO2	P2O5	Cr2O3	Ba	Cu	Pb	Zn	LOI	SUM_T	V2O5	TOT/C	TOT/S	C/ORG	C/GRA	CO2	S/S-	SO4
	Unit	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
	MDL	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-5.11	0.01	0.01	0.02	0.02	0.02	0.02	0.08	0.05	0.05
3200906	Drill Core	<0.01	0.04	0.06	0.08	<0.01	21.64	<0.01	3.04	4.65	3.01	87.85	0.01	0.07	8.23	0.04	<0.02	0.08	1.54	20.07
3200907	Drill Core	<0.01	0.04	0.13	0.16	<0.01	15.62	<0.01	2.29	3.50	4.64	91.81	0.04	0.09	6.84	0.05	<0.02	0.12	1.08	17.28
3200908	Drill Core	<0.01	0.08	0.13	0.16	<0.01	19.61	<0.01	5.87	10.17	5.94	89.86	0.04	0.22	11.76	0.10	<0.02	0.46	1.36	31.20
3200909	Drill Core	<0.01	0.07	0.23	0.30	<0.01	6.77	<0.01	1.39	2.21	7.63	98.92	0.08	0.28	4.44	0.12	<0.02	0.56	1.90	7.62



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QUALITY CONTROL REPORT

WHI19000265.1

	Method	WGHT	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.01	0.5	0.5	0.5	5	0.5	0.5	0.5	5	0.01	5	0.5	0.5	5	0.5	0.5	0.5	10	0.01	0.001
3200906	Drill Core	4.58	3.0	22.7	30104.9	47641	26.4	13.8	12.3	76	0.92	36	0.6	0.8	74	206.2	20.1	<0.5	63	<0.01	0.037
Pulp Duplicates																					
3200880	Rock	1.22	1.8	56.7	32.5	65	<0.5	4.9	10.3	482	3.05	<5	0.9	2.8	106	<0.5	<0.5	<0.5	109	1.18	0.058
REP 3200880	QC																				
3200886	Drill Core	4.79	1.9	20.1	>40000	55697	29.8	8.5	4.4	35	0.49	16	0.6	0.5	38	256.2	43.2	<0.5	20	<0.01	0.002
REP 3200886	QC																				
3200887	Drill Core	4.13	3.0	17.7	21367.8	48785	13.7	19.7	8.8	42	0.60	24	1.1	0.6	45	217.3	19.1	<0.5	58	<0.01	0.008
REP 3200887	QC																				
3200888	Drill Core	4.86	5.2	38.4	35704.2	72453	19.6	28.8	27.3	42	1.17	89	1.3	1.4	50	338.1	26.7	<0.5	145	0.03	0.023
REP 3200888	QC		5.4	34.2	35379.3	71817	20.1	28.2	28.3	43	1.18	93	1.3	1.0	53	348.3	26.7	<0.5	144	0.03	0.023
REP 3200891	QC																				
3200895	Drill Core	3.94	6.4	24.7	36419.9	97178	18.0	22.7	21.9	32	0.99	69	1.5	1.3	31	410.4	18.5	<0.5	142	<0.01	0.014
REP 3200895	QC																				
3200896	Drill Core	4.93	2.7	16.3	39312.8	85733	18.5	9.2	7.7	23	0.31	15	0.8	0.7	35	365.8	20.6	<0.5	66	<0.01	0.010
REP 3200896	QC																				
3200903	Drill Core	4.81	5.7	33.7	24780.2	52867	23.0	45.4	23.4	182	1.46	86	2.5	1.7	48	231.6	24.7	<0.5	161	<0.01	0.024
REP 3200903	QC																				
3200908	Drill Core	4.00	6.7	54.4	>40000	102145	44.8	28.2	20.1	302	2.18	82	1.0	2.0	77	488.1	43.2	<0.5	189	<0.01	0.068
REP 3200908	QC		7.2	55.5	>40000	102552	45.6	31.7	21.0	321	2.17	90	1.2	2.0	81	527.8	46.2	<0.5	192	<0.01	0.062
3200909	Drill Core	4.44	7.8	20.2	13607.2	21662	20.3	80.6	28.7	380	2.58	56	1.3	2.4	78	109.2	23.2	<0.5	381	0.01	0.070
REP 3200909	QC																				
Core Reject Duplicates																					
3200891	Drill Core	3.62	9.9	36.3	19715.2	47603	12.3	52.6	29.1	44	1.76	141	2.1	2.6	71	209.4	28.2	<0.5	339	0.07	0.064
DUP 3200891	QC		10.0	34.7	19476.8	47518	11.5	52.7	32.4	41	1.71	142	2.1	3.5	68	195.9	27.3	<0.5	329	0.07	0.055
Reference Materials																					
STD COO1	Standard																				
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QUALITY CONTROL REPORT

WHI19000265.1

	Method Analyte Unit MDL	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	LF725	LF725	LF725	LF725	LF725
		La	Cr	Mg	Ba	Ti	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	SiO2	Al2O3	Fe2O3	CaO	MgO
		ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%
		0.5	0.5	0.01	5	0.001	0.01	0.01	0.01	0.5	0.05	0.5	0.5	0.05	5	2	0.01	0.01	0.01	0.01	0.01
3200906	Drill Core	2.8	16.7	<0.01	569	0.019	0.18	<0.01	<0.01	<0.5	28.73	<0.5	1.4	3.31	<5	<2	49.29	0.76	1.33	0.01	0.02
Pulp Duplicates																					
3200880	Rock	8.1	6.8	0.88	336	0.208	2.04	0.27	0.31	<0.5	<0.05	3.4	<0.5	<0.05	6	<2	60.29	16.77	6.37	6.21	2.93
REP 3200880	QC																				
3200886	Drill Core	0.8	5.4	<0.01	397	0.005	0.05	<0.01	<0.01	0.5	16.43	<0.5	2.8	3.99	<5	<2	41.95	0.41	0.68	<0.01	0.01
REP 3200886	QC																42.08	0.42	0.68	<0.01	0.01
3200887	Drill Core	2.0	14.4	<0.01	554	0.016	0.11	<0.01	<0.01	<0.5	13.52	0.5	1.3	3.04	<5	2	44.95	0.69	0.83	0.01	0.02
REP 3200887	QC																				
3200888	Drill Core	3.9	32.0	<0.01	306	0.044	0.18	<0.01	<0.01	0.5	21.93	0.9	1.8	5.18	<5	3	33.44	1.22	1.63	0.05	<0.01
REP 3200888	QC	4.2	32.6	<0.01	346	0.044	0.19	<0.01	<0.01	0.6	20.88	<0.5	1.7	5.07	<5	4					
REP 3200891	QC																51.41	3.41	2.50	0.11	0.02
3200895	Drill Core	2.8	30.7	<0.01	238	0.043	0.15	<0.01	<0.01	<0.5	41.06	0.6	3.3	6.03	<5	4	17.28	1.08	1.40	0.03	0.01
REP 3200895	QC																				
3200896	Drill Core	1.1	13.9	<0.01	412	0.020	0.12	<0.01	<0.01	<0.5	35.43	<0.5	2.1	4.86	<5	3	10.89	0.74	0.47	0.02	0.01
REP 3200896	QC																				
3200903	Drill Core	4.5	36.3	<0.01	384	0.045	0.60	<0.01	<0.01	<0.5	25.90	0.9	2.0	3.99	<5	3	32.64	2.13	2.18	0.02	0.02
REP 3200903	QC																				
3200908	Drill Core	5.9	35.8	<0.01	222	0.059	0.37	<0.01	<0.01	<0.5	58.55	0.6	2.3	7.05	<5	5	37.78	1.51	3.23	0.03	0.02
REP 3200908	QC	5.9	38.6	<0.01	214	0.059	0.42	<0.01	<0.01	<0.5	62.05	0.8	2.3	7.05	<5	8	37.62	1.50	3.20	0.03	0.01
3200909	Drill Core	11.1	91.5	<0.01	481	0.113	1.25	<0.01	<0.01	<0.5	17.30	0.9	1.3	2.93	<5	3	69.47	5.38	3.93	0.03	0.03
REP 3200909	QC																				
Core Reject Duplicates																					
3200891	Drill Core	9.4	74.2	<0.01	408	0.102	0.53	<0.01	<0.01	2.3	11.97	1.7	1.7	4.22	<5	4	50.82	3.40	2.53	0.10	0.01
DUP 3200891	QC	9.1	73.7	<0.01	344	0.101	0.48	<0.01	<0.01	2.1	12.26	1.3	1.8	4.19	<5	4	51.59	3.47	2.55	0.11	0.02
Reference Materials																					
STD COO1	Standard																				
STD COO1	Standard																				
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QUALITY CONTROL REPORT

WHI19000265.1

	Method	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	LF725	TC000	TC000	TC005	TC005	TC006	TC008	TC008	
	Analyte	K2O	MnO	TiO2	P2O5	Cr2O3	Ba	Cu	Pb	Zn	LOI	SUM_T	V2O5	TOT/C	TOT/S	C/ORG	C/GRA	CO2	S/S-	SO4	
	Unit	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	
	MDL	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-5.11	0.01	0.01	0.02	0.02	0.02	0.02	0.08	0.05	0.05
3200906	Drill Core	<0.01	0.04	0.06	0.08	<0.01	21.64	<0.01	3.04	4.65	3.01	87.85	0.01	0.07	8.23	0.04	<0.02	0.08	1.54	20.07	
Pulp Duplicates																					
3200880	Rock	1.49	0.14	0.54	0.14	<0.01	0.11	<0.01	<0.01	<0.01	0.84	99.19	0.03	0.03	<0.02	0.02	<0.02	<0.08	<0.05	0.12	
REP 3200880	QC																				
3200886	Drill Core	<0.01	0.03	0.01	<0.01	<0.01	23.48	<0.01	6.62	5.33	2.98	86.13	<0.01	0.04	9.76	0.04	<0.02	<0.08	1.85	23.72	
REP 3200886	QC	<0.01	0.03	0.02	<0.01	<0.01	23.37	<0.01	6.65	5.36	2.98	86.21	<0.01								
3200887	Drill Core	<0.01	0.03	0.04	0.02	<0.01	24.49	<0.01	2.17	4.63	2.07	84.15	0.01	0.04	9.04	0.04	<0.02	<0.08	1.56	22.43	
REP 3200887	QC															0.04	9.06				
3200888	Drill Core	<0.01	0.03	0.09	0.05	<0.01	27.93	<0.01	3.49	7.17	4.04	84.53	0.03	0.05	11.49	0.05	<0.02	<0.08	1.81	29.05	
REP 3200888	QC																				
REP 3200891	QC	<0.01	0.03	0.20	0.17	<0.01	17.63	<0.01	1.95	4.55	6.29	91.59	0.06								
3200895	Drill Core	<0.01	0.03	0.10	0.03	<0.01	35.15	<0.01	3.55	9.01	3.92	78.27	0.03	0.05	14.63	0.04	<0.02	<0.08	2.74	35.67	
REP 3200895	QC																		<0.08		
3200896	Drill Core	<0.01	0.03	0.03	0.02	<0.01	41.04	<0.01	3.85	8.11	2.80	75.13	0.01	0.05	14.33	0.04	<0.02	<0.08	1.39	38.82	
REP 3200896	QC																		<0.02		
3200903	Drill Core	<0.01	0.05	0.11	0.09	<0.01	29.13	<0.01	2.55	5.18	4.78	83.75	0.03	0.12	10.97	0.06	<0.02	0.20	1.73	27.73	
REP 3200903	QC																				
3200908	Drill Core	<0.01	0.08	0.13	0.16	<0.01	19.61	<0.01	5.87	10.17	5.94	89.86	0.04	0.22	11.76	0.10	<0.02	0.46	1.36	31.20	
REP 3200908	QC	<0.01	0.07	0.13	0.16	<0.01	19.48	<0.01	5.78	10.10	5.94	89.23	0.04								
3200909	Drill Core	<0.01	0.07	0.23	0.30	<0.01	6.77	<0.01	1.39	2.21	7.63	98.92	0.08	0.28	4.44	0.12	<0.02	0.56	1.90	7.62	
REP 3200909	QC															0.26	4.57				
Core Reject Duplicates																					
3200891	Drill Core	<0.01	0.03	0.20	0.16	<0.01	17.62	<0.01	1.93	4.48	6.58	91.15	0.07	0.07	8.56	0.06	<0.02	<0.08	1.74	20.45	
DUP 3200891	QC	<0.01	0.03	0.20	0.16	<0.01	17.64	<0.01	1.94	4.60	6.58	92.23	0.06	0.06	8.62	0.05	<0.02	<0.08	2.08	19.62	
Reference Materials																					
STD COO1	Standard																		2.46		
STD COO1	Standard																		2.21		
STD COO1	Standard																		2.44		
STD COO1	Standard																		2.42		



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		WGHT	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.5	0.5	0.5	5	0.5	0.5	0.5	5	0.01	5	0.5	0.5	5	0.5	0.5	0.5	10	0.01
STD GGC-10	Standard																			
STD GGC-10	Standard																			
STD GGC-10	Standard																			
STD GGC-10	Standard																			
STD GS311-1	Standard																			
STD GS311-1	Standard																			
STD GS910-4	Standard																			
STD GS910-4	Standard																			
STD OREAS133B(D)	Standard																			
STD OREAS135	Standard		8.3	285.2	16669.4	27745	53.6	34.2	29.5	3951	8.85	880	10.1	11.3	26	66.3	36.9	5.2	34	1.81
STD OREAS133B(D)	Standard																			0.079
STD OREAS605	Standard		4.9	49496.9	882.7	2171	976.7	1532.9	94.6	82	3.64	1679	0.9	3.1	48	13.9	295.2	20.3	<10	0.18
STD OREAS605	Standard		4.6	51890.9	952.9	2250	975.3	1611.0	101.3	83	3.76	1715	0.9	2.9	56	14.6	293.1	20.9	<10	0.19
STD OREAS72B	Standard																			0.010
STD OREAS72B	Standard																			0.009
STD OREAS927-AR	Standard		1.1	10709.5	221.0	753	4.5	32.2	31.0	1112	8.23	12	1.7	12.9	13	1.1	1.4	77.4	35	0.33
STD RTS-3A	Standard																			0.051
STD RTS-3A	Standard																			
STD RTS-3A	Standard																			
STD RTS-3A	Standard																			
STD SY-4(D)	Standard																			
STD SY-4(D)	Standard																			
STD GS311-1 Expected																				
STD GS910-4 Expected																				
STD RTS-3A Expected																				
STD GGC-10 Expected																				
STD OREAS135 Expected			8.25	294	17000	28000	55.2	36	29.6	3960	8.97	937	9.4	10.4	26.5	67	38	5.1	33.4	1.83
STD OREAS605 Expected			4.75	49800	856	2170	984	1568	96	86	3.75	1674	0.92		49	13.6	307	19	7.8	0.182
STD OREAS927-AR Expected			1.06	10715	212	726	4.9	30.9	29.4	1110	8.15	13.5	1.7	12.5	13.1	1.1	1.3	66	34	0.3
																				0.054



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		AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	LF725	LF725	LF725	LF725	LF725
		La	Cr	Mg	Ba	Ti	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	SiO2	Al2O3	Fe2O3	CaO	MgO
		ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%
		0.5	0.5	0.01	5	0.001	0.01	0.01	0.01	0.5	0.05	0.5	0.5	0.05	5	2	0.01	0.01	0.01	0.01	0.01
STD GGC-10	Standard																				
STD GGC-10	Standard																				
STD GGC-10	Standard																				
STD GGC-10	Standard																				
STD GS311-1	Standard																				
STD GS311-1	Standard																				
STD GS910-4	Standard																				
STD GS910-4	Standard																				
STD OREAS133B(D)	Standard																34.41	7.16	11.50	5.23	3.82
STD OREAS135	Standard	39.1	22.1	0.81	439	0.026	1.12	0.02	0.52	2.8	1.27	3.4	6.5	7.14	<5	<2					
STD OREAS133B(D)	Standard																34.46	7.14	11.55	5.30	3.82
STD OREAS605	Standard	7.4	31.0	0.03	239	0.010	0.74	0.03	0.14	7.1	1.47	1.1	16.6	7.82	6	76					
STD OREAS605	Standard	7.7	28.5	0.03	177	0.010	0.77	0.03	0.14	7.1	1.99	1.0	17.3	8.01	6	80					
STD OREAS72B	Standard																51.17	8.85	9.97	3.96	16.09
STD OREAS72B	Standard																51.10	8.78	9.97	3.97	16.11
STD OREAS927-AR	Standard	28.3	42.2	1.90	53	0.098	3.26	<0.01	0.27	5.4	0.12	3.8	<0.5	1.82	9	17					
STD RTS-3A	Standard																				
STD RTS-3A	Standard																				
STD RTS-3A	Standard																				
STD RTS-3A	Standard																				
STD SY-4(D)	Standard																50.07	20.81	6.22	8.01	0.54
STD SY-4(D)	Standard																50.18	20.68	6.23	8.04	0.53
STD GS311-1 Expected																					
STD GS910-4 Expected																					
STD RTS-3A Expected																					
STD GGC-10 Expected																					
STD OREAS135 Expected		39.8	22	0.833	366	0.026	1.09	0.017	0.487	2.93	1.21	3.51	6.27	7.08	4.8						
STD OREAS605 Expected		7.5	27.5	0.0289	160	0.01	0.73	0.0328	0.134	7.1	1.7	1.05	15.9	7.86	6.7	79					
STD OREAS927-AR Expected		26.9	41.7	1.94	51.4	0.085	3.25	0.011	0.27	4.9	0.12	4.74	1.77		9.09	15.5					



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		LF725 K2O %	LF725 MnO %	LF725 TiO2 %	LF725 P2O5 %	LF725 Cr2O3 %	LF725 Ba %	LF725 Cu %	LF725 Pb %	LF725 Zn %	LF725 LOI %	LF725 SUM_T %	LF725 V2O5 %	TC000 TOT/C %	TC000 TOT/S %	TC005 C/ORG %	TC005 C/GRA %	TC006 CO2 %	TC008 S/S- %	TC008 SO4 %
		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-5.11	0.01	0.01	0.02	0.02	0.02	0.02	0.08	0.05	0.05
STD GGC-10	Standard																	4.33		
STD GGC-10	Standard																	4.49		
STD GGC-10	Standard																	4.45		
STD GGC-10	Standard																	4.56		
STD GS311-1	Standard													0.98	2.40					
STD GS311-1	Standard													1.00	2.31					
STD GS910-4	Standard													2.73	8.46					
STD GS910-4	Standard													2.72	8.20					
STD OREAS133B(D)	Standard	3.43	0.16	0.22	0.11	<0.01	0.07	0.06	5.06	11.35	13.03	99.02	<0.01							
STD OREAS135	Standard																			
STD OREAS133B(D)	Standard	3.42	0.16	0.22	0.12	<0.01	0.07	0.05	5.06	11.35	13.03	99.15	<0.01							
STD OREAS605	Standard																			
STD OREAS605	Standard																			
STD OREAS72B	Standard	1.31	0.15	0.35	0.05	0.15	0.03	0.02	<0.01	<0.01	5.12	98.55	0.01							
STD OREAS72B	Standard	1.30	0.15	0.35	0.06	0.14	0.03	0.02	<0.01	0.01	5.12	98.46	0.01							
STD OREAS927-AR	Standard																			
STD RTS-3A	Standard																			3.35
STD RTS-3A	Standard																			3.65
STD RTS-3A	Standard																			3.63
STD RTS-3A	Standard																			3.29
STD SY-4(D)	Standard	1.67	0.11	0.29	0.15	<0.01	0.04	<0.01	<0.01	<0.01	4.56	99.64	<0.01							
STD SY-4(D)	Standard	1.67	0.11	0.29	0.15	<0.01	0.04	<0.01	<0.01	0.01	4.56	99.66	<0.01							
STD GS311-1 Expected														1.02	2.35					
STD GS910-4 Expected														2.65	8.27					
STD RTS-3A Expected																				3.3
STD GGC-10 Expected																		4.79		
STD OREAS135 Expected																				
STD OREAS605 Expected																				
STD OREAS927-AR Expected																				



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		WGHT	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.5	0.5	0.5	5	0.5	0.5	0.5	5	0.01	5	0.5	0.5	5	0.5	0.5	0.5	10	0.01	0.001
STD SY-4(D) Expected																					
STD OREAS72B Expected																					
STD OREAS133B(D) Expected																					
STD COO1 Expected																					
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
SI BLK	Blank																				
BLK	Blank																				
BLK	Blank		<0.5	1.4	38.2	18	<0.5	<0.5	<0.5	<5	<0.01	<5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<10	<0.01	0.001
BLK	Blank		<0.5	<0.5	0.5	<5	<0.5	<0.5	<0.5	<5	<0.01	<5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<10	<0.01	<0.001
BLK	Blank																				
SI BLK	Blank																				
BLK	Blank																				
Prep Wash																					
ROCK-WHI	Prep Blank		1.1	2.3	3.0	37	<0.5	1.0	3.8	544	1.87	<5	<0.5	2.9	25	<0.5	<0.5	<0.5	24	0.69	0.039
ROCK-WHI	Prep Blank		1.3	2.9	3.2	36	<0.5	1.0	3.4	553	1.94	<5	<0.5	2.9	24	<0.5	<0.5	<0.5	24	0.66	0.039



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		AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	AQ270	LF725	LF725	LF725	LF725	LF725
		La	Cr	Mg	Ba	Ti	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	SiO2	Al2O3	Fe2O3	CaO	MgO
		ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	%
		0.5	0.5	0.01	5	0.001	0.01	0.01	0.01	0.5	0.05	0.5	0.5	0.05	5	2	0.01	0.01	0.01	0.01	0.01
STD SY-4(D) Expected																	49.9	20.69	6.21	8.05	0.54
STD OREAS72B Expected																	51.16	8.97	9.724	3.96	15.933
STD OREAS133B(D) Expected																	33.83	6.91	11.67	5.4	3.73
STD COO1 Expected																					
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
SI BLK	Blank																98.59	0.32	0.03	0.01	0.02
BLK	Blank																				
BLK	Blank	<0.5	<0.5	<0.01	<5	<0.001	<0.01	<0.01	<0.01	<0.5	0.20	<0.5	<0.5	<0.05	<5	<2					
BLK	Blank	<0.5	<0.5	<0.01	<5	<0.001	<0.01	<0.01	<0.01	<0.5	<0.05	<0.5	<0.5	<0.05	<5	<2					
BLK	Blank																				
SI BLK	Blank																99.28	0.33	0.02	0.02	0.01
BLK	Blank																				
Prep Wash																					
ROCK-WHI	Prep Blank	7.7	2.3	0.42	76	0.103	0.87	0.08	0.09	<0.5	<0.05	2.8	<0.5	<0.05	<5	<2	71.10	13.82	3.09	2.20	0.86
ROCK-WHI	Prep Blank	8.1	2.9	0.46	71	0.107	0.86	0.08	0.09	<0.5	<0.05	3.1	<0.5	<0.05	<5	<2	71.63	13.94	3.25	2.19	0.87



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		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	-5.11	0.01	0.01	0.02	0.02	0.02	0.02	0.08	0.05	0.05		
STD SY-4(D) Expected		1.66	0.108	0.287	0.131	0.0345				4.56												
STD OREAS72B Expected		1.313	0.13	0.355	0.061	0.142	0.0335	0.0193		5.12												
STD OREAS133B(D) Expected						0.08		0.032	5.06	11.35												
STD COO1 Expected																2.37						
BLK	Blank													<0.02	<0.02							
BLK	Blank													<0.02	<0.02							
BLK	Blank																			<0.05		
BLK	Blank																			<0.05		
BLK	Blank																	<0.02				
SI BLK	Blank	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.00	98.96	<0.01									
BLK	Blank																	<0.02				
BLK	Blank																					
BLK	Blank																					
BLK	Blank																		<0.08			
SI BLK	Blank	<0.01	0.02	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.00	99.66	<0.01									
BLK	Blank																		<0.08			
Prep Wash																						
ROCK-WHI	Prep Blank	1.99	0.10	0.35	0.09	<0.01	0.07	<0.01	<0.01	<0.01	0.99	99.28	0.02	0.09	0.02	0.05	<0.02	0.17	<0.05	0.11		
ROCK-WHI	Prep Blank	1.97	0.10	0.34	0.09	<0.01	0.06	<0.01	<0.01	<0.01	0.87	100.02	<0.01	0.09	0.03	0.06	<0.02	0.12	<0.05	0.14		